

Work Order ID 111116

Thursday, January 09, 2014 11:28:46 AM

111116

Page 1

Item ID: PB67-43001-17

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Aft Adjustable Blade Support Assembly

Start Date: 1/8/2014 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 1/24/2014 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: MF Date: 14-01-09 Tooling: _____ Date: _____Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
B67-43001-17	Rev C								

100

0.00

100

Large Fab

Large Fab

Memo

0.00

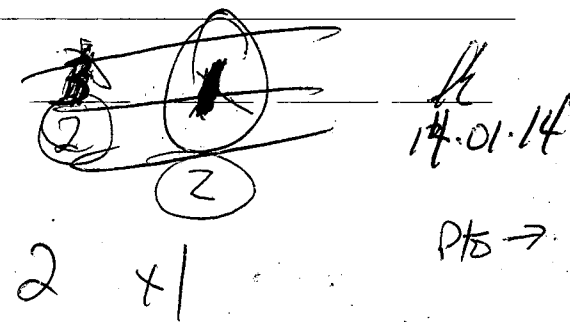
Large Fab

1- make a 0.090" chamfer in the 1.00" hole before welding

2- grind weld flush in area of PB67-43001-249 only

3- install helicol insert as per dwg

4- assemble parts and weld as per dwg



110

QC9- Inspect visual per OSI004- Fusion Welds 0.00

110

QC

Memo

0.00

Quality Control

Cp(1401.30) 2 14-01-15 9 9-89

DAS
9
9-89

DQA: Auth Date: 14/2/28QA Closed: Auth Date: 14-2-21

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only ☐

Work Order: <u>11116</u>	DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS			
Part No. <u>PB67-43601-</u>		Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐
NCR No. <u>14-3547</u> ¹⁷		Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐
		Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐
		Large Fab ☒	Composite ☐	Supplier ☐	

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design ☐									
Doc/Data ☐									
Equip/Tooling ☐									
Handling/Pre ☐									
Material ☐									
Operator ☒	14/01/31	# 100	x 1	Revisions after weld in that operator welder welders wrong PB67-43601-247 on PB67-43601-71. Re operator error/welder. was disorganizes pulling all parts for different info's and not following the drawings	DAS 16 9-89 QJ2042 14/01/31 FEB 3 2004	Scrap + Destroy. No Replace. PB67-43601-247.1.12 -71:57.82 \$ 68.44	<u>Auth</u> 14.02.04	DAS 9 9-89 14.02.04	DAS 16 9-89 QJ2042 14/01/31
Offset/Setup ☐									
Process ☒									
Supplier ☐									
Training ☐									
Transport ☐									
Unapproved ☐									

FAULT CATEGORY

Landing Gear	General		
☐ Bending	☐ Bend	☐ Folio/Program	☐ Outside Dimensions
☐ Centre Not Concentric	☐ BOM/Route	☐ Grain	☐ Over/Under tolerance
☐ Cracks	☐ Broken/Damage/Defect	☐ Hardware	☐ Part Incorrect
☐ Crimp/Kink/Ripple/Wave	☐ Burrs	☐ Inspection Incomplete/Unqualified	☐ Part Lost/Missing
☐ Cuffs	☐ Contamination	☐ Instructions Incomplete/Unclear	☐ Part Moved
☐ Crushing	☐ Countersink	☐ Misaligned/off center	☐ Positioned Wrong
☐ Heat Treat	☐ Cut Too Short	☐ Mislabeled	☐ Power Loss/Surge
☐ Inspection Strip in Tube	☐ Drawing	☐ Misread	☒ Other
☐ Marks/Chatter	☐ Drill Holes	☐ Off-set	<u>Not following drawing</u>
☐ Turning Sequence	☐ Finish	☐ Out of Calibration	
☐ Wave/Twist in Tube	☐ Fit/Function	☐ Out of Sequence	

Thursday, January 09, 2014 11:28:46 AM

Page 3

Quality Control

Work Order ID 111116

Thursday, January 09, 2014 11:28:46 AM

111116

Page 4

Item ID: PB67-43001-17

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Aft Adjustable Blade Support Assembly

Start Date: 1/8/2014 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 1/24/2014 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
200	Identify as per dwg & Stock Location: <i>114.003</i>	0.00				<i>2</i>	<i>0</i>		<i>14.02.18</i>
200									
Packaging	Memo	0.00							
Packaging									
210	QC21- Final Inspection - Work Order Release	0.00							
210									
QC	Memo	0.00							
Quality Control									

*14-02-19**mf 14-2-18*

Picklist Print

Thursday, January 09, 2014 11:28:46 AM

Page 1

Work Order ID: 111116

Parent Item: PB67-43001-17

Parent Item Name: Aft Adjustable Blade Support Assembly

Start Date: 1/8/2014

Required Date: 1/24/2014

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A 08-06-26 new issue DD verified by:ec
dwg EC verified by:DD IPP Rev B 10.09.28 per rev C

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
PB67-43001-71 20° Blade Support Assembly		Manufactured	No				Each	13.0000		1		1/14.01.14	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				Mezz2		13							
				104618		13							
PB67-43001-249 Inner Tube Bushing		Manufactured	No			100	Each	2.0000	1	1		1/14.01.14	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				Mezz2		2							
				99974		2							
PB67-43001-253 Gusset		Manufactured	No			100	Each	8.0000	1	1		1/14.01.14	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				Mezz2		8							
				99973		8							
PB67-43001-254 Gusset		Manufactured	No			100	Each	9.0000	1	1		1/14.01.14	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				Mezz2		9							
				108308		9							
PB67-43001-259 Inner Tube		Manufactured	No			100	Each	5.0000	1	1		1/14.01.14	
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				Mezz2		5							
				44979		1							
				99969		4							

Picklist Print

Thursday, January 09, 2014 11:28:46 AM

Page 2

Work Order ID: 111116

Parent Item: PB67-43001-17

Start Date: 1/8/2014

Required Date: 1/24/2014

Parent Item Name: Aft Adjustable Blade Support Assembly

Start Qty: 1.00

Required Qty: 1.00

MS124780	Purchased	No	180	Each	37.0000	1	1	<u>1/14.01.14</u>
HELICAL INSERT								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST331	37	
-------	----	--

111064	37	
--------	----	--

MS27039-1-10	Purchased	No	180	Each	256.0000	8	8	<u>1/14.02.14</u>
SCREW								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

GA	100	
----	-----	--

120449	100	
--------	-----	--

ST506	156	
-------	-----	--

m126474	156	
---------	-----	--

NAS1149D0316J	Purchased	No	180	Each	135.0000	8	8	<u>1/14.02.14</u>
Washer								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

ST294	135	
-------	-----	--

123482	135	
--------	-----	--

NAS1149D0363J	Purchased	No	180	Each	3,689.0000	8	8	<u>1/14.02.14</u>
Washer								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

GA	154	
----	-----	--

124392	154	
--------	-----	--

ST510a	3535	
--------	------	--

m126319	2335	
---------	------	--

m127813	1200	
---------	------	--

PB67-43001-73	Manufactured	No	180	Each	10.0000	1	1	<u>1/14.02.14</u>
20 Degree Cover Plate								

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
-----------------	----------------	-----------------

Mezz2	10	
-------	----	--

90817	3	
-------	---	--

92084	7	
-------	---	--

Thursday, January 09, 2014 11:28:46 AM

Shop Packet Print

Page 2

Picklist Print

Thursday, January 09, 2014 11:28:46 AM

Page 3

Work Order ID: 111116

Parent Item: PB67-43001-17

Start Date: 1/8/2014

Required Date: 1/24/2014

Parent Item Name: Aft Adjustable Blade Support Assembly

Start Qty: 1.00

Required Qty: 1.00

PB67-43001-83

Manufactured No

180

Each

16.0000

1

1

D-Pad Assembly, Short

Location

Loc Qty

Loc Code

Mezz2

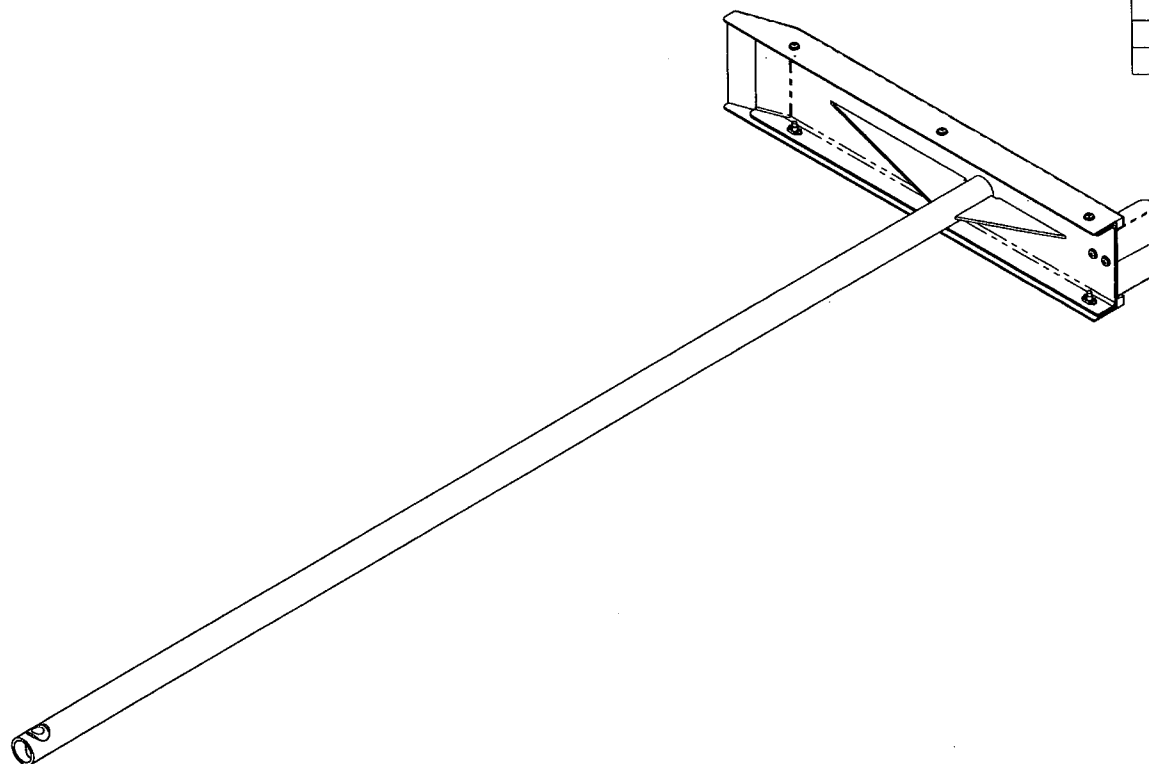
16

100022

16

2

14.02.14



B67-43001-17 AFT ADJUSTABLE BLADE SUPPORT ASSY

ITEM	QTY -17	P/N	DESCRIPTION
1	X	B67-43001-17	AFT ADJUSTABLE BLADE SUPPORT ASSEMBLY
2	1	B67-43001-17W	AFT ADJUSTABLE BLADE SUPPORT WELDMENT
3	1	B67-43001-73	20" COVER PLATE
4	1	B67-43001-83	SHORT D-PAD ASSY
5	8	MS27039-1-10	SCREW
6	8	NAS1149D0316J	WASHER
7	6	NAS1149D0363J	WASHER

me
11111 6
14-01-09

RELEASED
2010-09-16
mb

C		REDRAWN PREMIER AVIATION DRAWING JAW DART QSI 018 AND QSI 043. FOR PREVIOUS REVISIONS, REFER TO SHEET 7 OF PREMIER AVIATION DRAWING No. B67-43001. REASON: SEE PAR#09-011.		MB	10.04.28
REV.	DESCRIPTION			BY	DATE
DESIGN	RW			DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	<i>[Signature]</i>			DRAWING NO. B67-43001-17 REV. C	
CHECKED	<i>[Signature]</i>			SHEET 1 OF 2	
MFG. APPR.	<i>[Signature]</i>			TITLE SCALE	
APPROVED	<i>[Signature]</i>			AFT ADJUSTABLE BLADE SUPPORT ASSY NTS	
DE APPR.	N/A			DATE 10.04.28	
COPYRIGHT © 1995 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD					

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

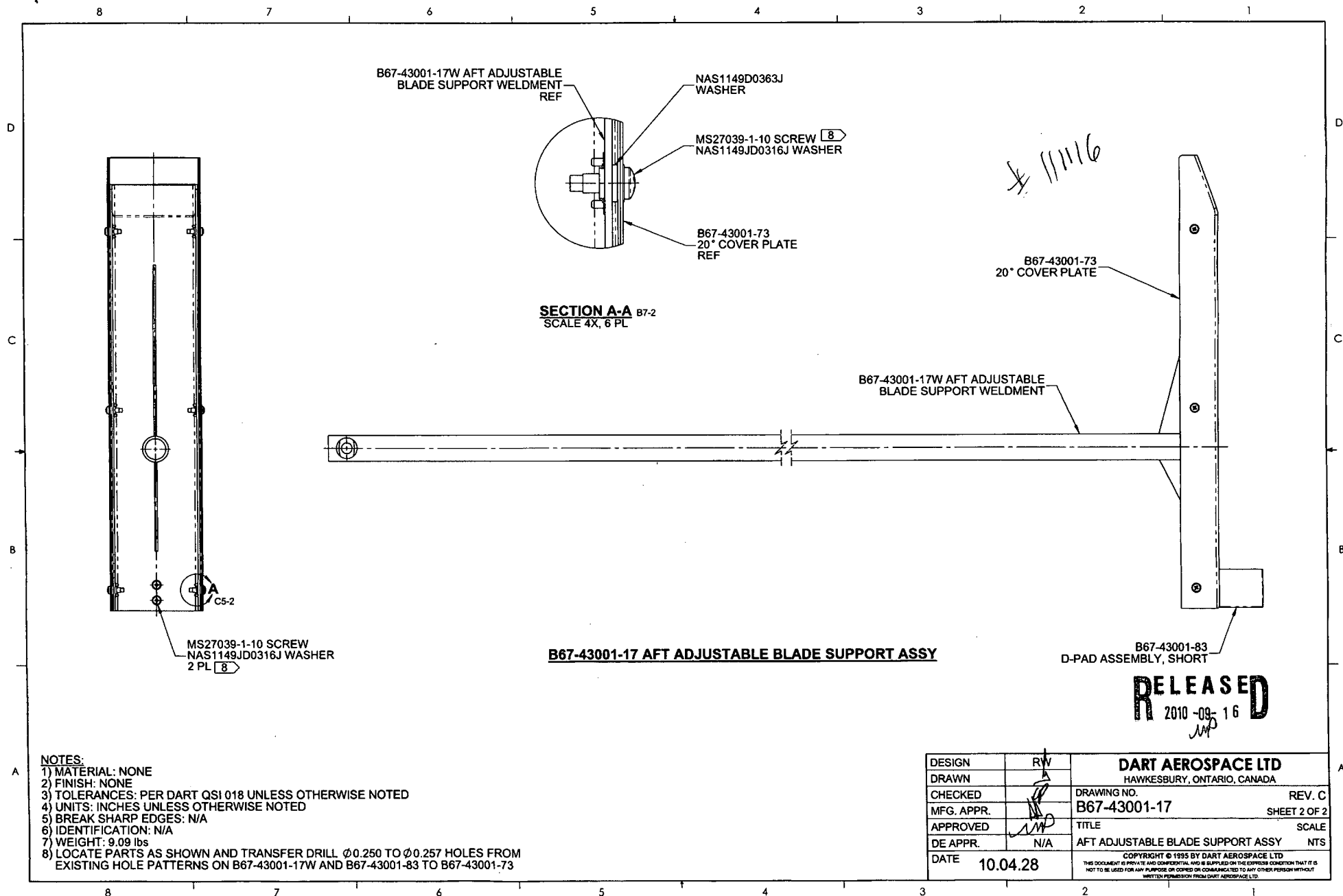
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--

ITEM	QTY -17W	P/N	DESCRIPTION
1	X	B67-43001-17W	AFT ADJUSTABLE BLADE SUPPORT WELDMENT
2	1	B67-43001-71	20-DEGREE BLADE SUPPORT ASSY
3	1	B67-43001-249	INNER TUBE BUSHING
4	1	B67-43001-253	GUSSET
5	1	B67-43001-254	GUSSET
6	1	B67-43001-259	INNER TUBE
7	1	MS124780	HELICAL INSERT

#111116

B67-43001-17W AFT ADJUSTABLE BLADE SUPPORT WELDMENT

RELEASED
R 2010-09-16
MP

C	REDRAWN PREMIER AVIATION DRAWING IAW DART QSI 018 AND QSI 043. FOR PREVIOUS REVISIONS, REFER TO SHEET 7 OF PREMIER AVIATION DRAWING No. B67-43001. REASON: SEE PAR#09-011.		MB	10.04.28
REV.	DESCRIPTION		BY	DATE
DESIGN	RW	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	5	DRAWING NO. B67-43001-17W REV. C		
CHECKED	JP	SHEET 1 OF 2		
MFG. APPR.	MP	TITLE AFT ADJUSTABLE BLADE SUPPORT WELDMENT SCALE NTS		
APPROVED	MP	DATE 10.04.28		
DE APPR.	N/A	COPYRIGHT © 1995 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

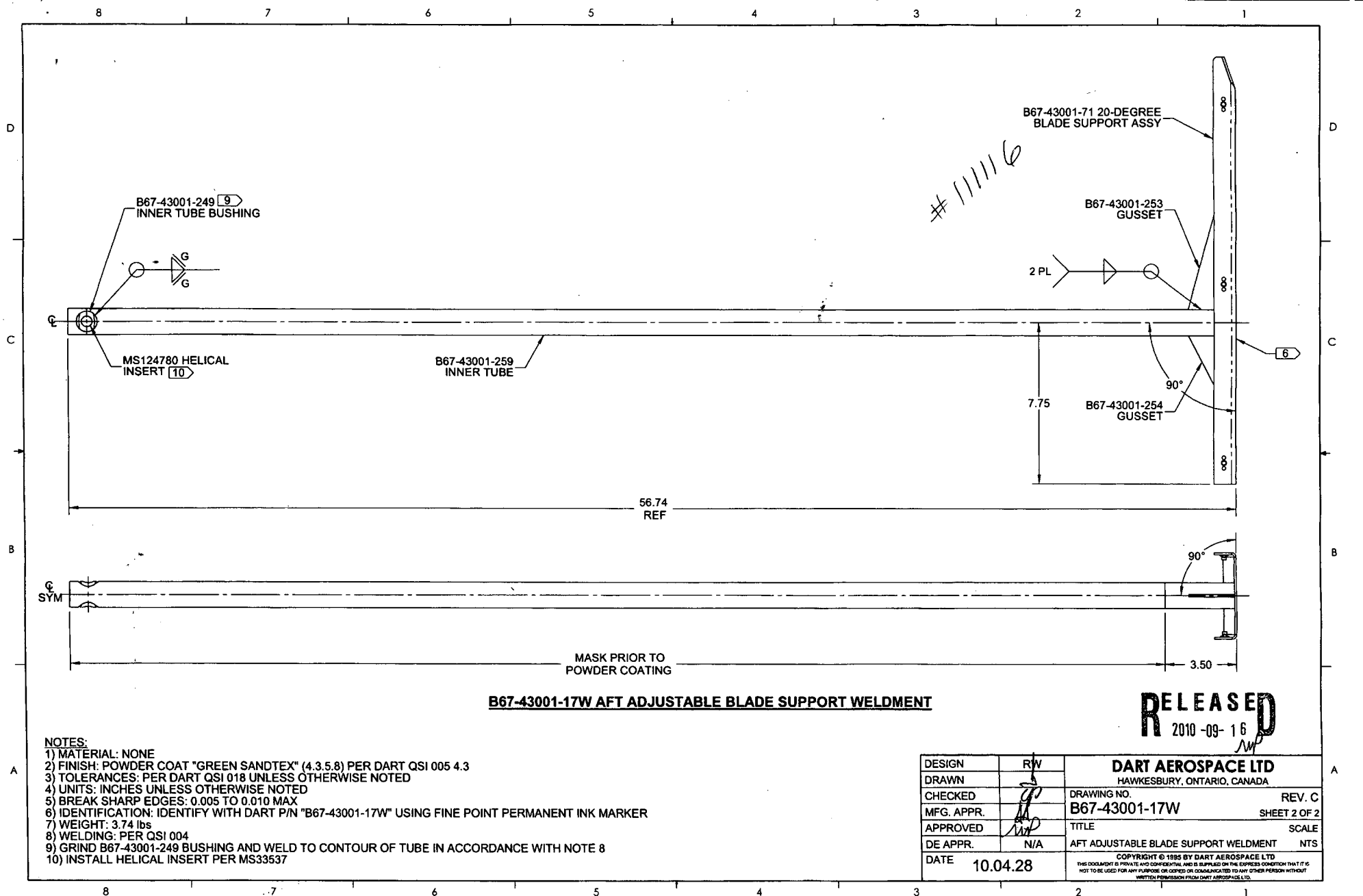
Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--



DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
--	--	---	--